

Appl. No. 09/387,195
Amdt. dated January 8, 2007
Reply to Office Action of October 6, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (canceled)

2. (currently amended) A method as recited in claim 4 [[1]], wherein the data includes a voice-activated application, the navigation commands controlling execution of the application.

3. (currently amended) A method as recited in claim 4 [[1]], further comprising comparing the identity to a data base of persons cleared for access to the data; and allowing the user to access the data if the user is included in the database.

4. (currently amended) A method for recognizing voice commands for manipulating data on the Internet, comprising:

providing data on a website on the Internet;

receiving voice signals from a user accessing the website;

establishing an identity of the user through at least two voice authentication

algorithms;

interpreting the voice signals of the user for determining navigation commands;

outputting selected data of the website based on the navigation commands; and

~~A method as recited in claim 1, further comprising~~ determining a language from the voice signals.

5. (currently amended) A method for recognizing voice commands for manipulating data on the Internet, comprising:

providing data on a website on the Internet;

receiving voice signals from a user accessing the website;

establishing an identity of the user through at least two voice authentication

algorithms;

interpreting the voice signals of the user for determining navigation commands;

outputting selected data of the website based on the navigation commands; and

~~A method as recited in claim 1, further comprising~~ utilizing artificial intelligence to interact with the user.

6. (currently amended) A method as recited in claim 4 [[1]], wherein the selected data includes voice signals and is output to a telephone.

Claim 7 (canceled)

8. (currently amended) A computer program as recited in claim 10 [[7]], wherein the data includes a voice-activated application, the navigation commands controlling execution of the application.

9. (currently amended) A computer program as recited in claim 10 [[7]], wherein the user accesses the website from at least one of a computer and a telephone.

10. (currently amended) A computer program embodied on a computer readable medium for recognizing voice commands for manipulating data on the Internet, comprising:
a code segment that provides data on a website on the Internet;
a code segment that receives voice signals from a user accessing the website;
a code segment that compares the voice signals from the user with a previously-recorded voice sample to establish an identity of the user, using at least two voice-authentication algorithms;
a code segment that interprets the voice signals of the user for determining navigation commands;
a code segment that outputs selected data of the website based on the navigation commands; and

~~A computer program as recited in claim 7, further comprising~~ a code segment that determines a language from the voice signals.

11. (currently amended) A computer program embodied on a computer readable medium for recognizing voice commands for manipulating data on the Internet, comprising:
a code segment that provides data on a website on the Internet;
a code segment that receives voice signals from a user accessing the website;

a code segment that compares the voice signals from the user with a previously-recorded voice sample to establish an identity of the user, using at least two voice-authentication algorithms;

a code segment that interprets the voice signals of the user for determining navigation commands;

a code segment that outputs selected data of the website based on the navigation commands; and

~~A computer program as recited in claim 7, further comprising~~ a code segment that utilizes artificial intelligence to interact with the user.

12. (currently amended) A computer program as recited in claim 10 ~~[[7]]~~, wherein the selected data includes voice signals and is output to a telephone.

Claim 13 (canceled)

14. (currently amended) A system as recited in claim 16 ~~[[13]]~~, wherein the data includes a voice-activated application, the navigation commands controlling execution of the application.

15. (currently amended) A system as recited in claim 16 ~~[[13]]~~, wherein the user accesses the website from at least one of a computer and a telephone.

16. (currently amended) A system for recognizing voice commands for manipulating data on the Internet, comprising:

logic that provides data on a website on the Internet;

logic that receives voice signals from a user accessing the website;

logic that compares the voice signals from the user to previously-stored voice samples of the user to establish an identity of the user, using at least two voice-authentication algorithms;

logic that interprets the voice signals of the user for determining navigation commands;

logic that outputs selected data of the website based on the navigation commands;

and

~~A system as recited in claim 13, further comprising~~ logic that determines a language from the voice signals.

17. (currently amended) A system for recognizing voice commands for manipulating data on the Internet, comprising:

logic that provides data on a website on the Internet;

logic that receives voice signals from a user accessing the website;

logic that compares the voice signals from the user to previously-stored voice samples of the user to establish an identity of the user, using at least two voice-authentication algorithms;

logic that interprets the voice signals of the user for determining navigation
commands;

logic that outputs selected data of the website based on the navigation commands;
and

~~A system as recited in claim 13, further comprising~~ logic that utilizes artificial
intelligence to interact with the user.

18. (currently amended) A system as recited in claim 16 [[13]], wherein the selected
data includes voice signals and is output to a telephone.

Claims 19 (canceled)

20. (currently amended) The method of Claim 21 [[19]] further comprising
outputting selected data based on the navigation commands.

21. (currently amended) A method for recognizing voice commands for manipulating
data on the Internet, the method comprising:

receiving a voice signal from a person cleared for access to the data;

characterizing the voice signal and storing a plurality of parameters indicative of a
voice of the person. ~~The method of Claim 19~~ wherein the voice signal is characterized by
statistical parameters and which are stored;

receiving voice signals from a user desiring access to the data;

comparing the voice signals to a data base of voice signals for persons cleared for access to the data, using at least two voice-authentication algorithms;

allowing the user to access the data if the user is included in the database; and

interpreting the voice signals of the user for determining navigation commands.

22. (currently amended) The method of Claim 21 [[19]] wherein the step of comparing is accomplished with a speech recognition algorithm.

23. (currently amended) The method of Claim 21 [[19]] wherein the step of receiving voice signals is accomplished at a first site and the step of comparing is accomplished at a second site.

24. (currently amended) The method of Claim 21 [[19]] further comprising:
generating a signal indicative of a result of the step of comparing; and
sending the signal to a processing unit allowing access to the data.

25. (currently amended) The method of Claim 21 [[19]] wherein the voice signal from a person is a password and the data to which access is allowed depends on the password.

Claim 26 (canceled)

27. (currently amended) The system of Claim 29 ~~[[26]]~~, wherein the transducer is selected from the group consisting of a microphone, an optical transducer, and a radio-frequency transducer.

28. (currently amended) The system of Claim 29 ~~[[26]]~~, wherein the interface is selected from the group consisting of an interface circuit, and a transmitter for transmitting digitized sound data and a terminal for receiving the digitized sound data.

29. (currently amended) A system for accessing and navigating data on the internet using voice signals, comprising:

a transducer for transducing and transmitting signals indicative of a voice;

a terminal for receiving signals indicative of the voice, the terminal further comprising a receiver, an analog front end, and a codec;

an interface between the terminal and a processor; and

a processor for receiving and processing signals from the transducer and the terminal through the interface.

wherein a user inputs a voice signal to the transducer, access to the data on the Internet is allowed if the voice signal matches a previously-stored voice signal from the user using at least two voice-authentication algorithms, and the system interprets the voice signals of the user for determining navigation commands; and

~~The system of Claim 29~~, wherein the interface comprises a digital signal processor, a transmitter, a terminal unit, and an interface circuit, wherein the receiver conditions sounds from the transducer, the codec performs an analog-to-digital conversion of the conditioned sounds, the digital signal processor analyzes a signal of the digitized sound to extract spectral and statistical data, and the transmitter transmit the data to the processor for receiving and processing signals.

Claim 30 (canceled)

31. (currently amended) The program of Claim 32 ~~[[30]]~~, further comprising a code segment that outputs selected data of the website based on navigation commands from the user.

32. (currently amended) A computer program embodied on a computer readable medium for recognizing voices and voice commands for accessing and manipulating data on the Internet, the program comprising:

a code segment for receiving and digitizing voice signals from a user;

a code segment for analyzing the voice signals and determining statistical parameters indicative of the voice and voice commands from the user;

a code segment for identifying and storing statistical parameters indicative of a voice signal from a user;

a code segment that interprets voice signals and voice commands of the user for determining an identity of the user using at least two voice-authentication algorithms;

a code segment for navigating on the Internet; and

~~The program of Claim 30, further comprising~~ a code segment that determines a language from the voice and voice commands of the user.

33. (currently amended) A computer program embodied on a computer readable medium for recognizing voices and voice commands for accessing and manipulating data on the Internet, the program comprising:

a code segment for receiving and digitizing voice signals from a user;

a code segment for analyzing the voice signals and determining statistical parameters indicative of the voice and voice commands from the user;

a code segment for identifying and storing statistical parameters indicative of a voice signal from a user;

a code segment that interprets voice signals and voice commands of the user for determining an identity of the user using at least two voice-authentication algorithms;

a code segment for navigating on the Internet; and

~~The program of Claim 30, further comprising~~ a code segment that utilizes artificial intelligence to interact with the user.